Demilitarization . . .

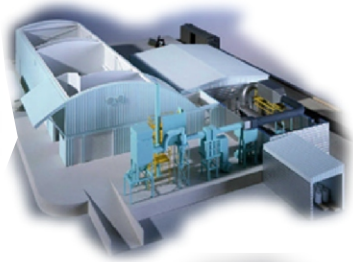
Conventional Ammunition and Resource Recovery, Recycle and Reuse

McAlester Army Ammunition Plant has a broad range of demilitarization capabilities, including open burning, detonation, disassembly and meltout/recovery. MCAAP has state-of-the-art autoclave facilities dedicated to resource recovery, recycling and reutilization of obsolete or unserviceable munitions, with a capability to demilitarize up to 2,000 lb. bombs. MCAAP has a RCRA Part B Permit for an APE 1236 deactivation furnace for demilitarization of small munitions items up to and including 20mm ammunition. MCAAP is permitted to open burn/open detonate ammunition, bulk explosives, propellants, and related components. MCAAP has state-of-the-art cryofracture facility for disposal of obsolete munitions.

TNT RECYCLING: MCAAP uses a modern projectile demilitarization process which yields high quality explosives suitable for military application. Recent efforts have yielded nearly 20 million pounds of MIL-DTL-248 quality TNT which is being reused in new bomb production.

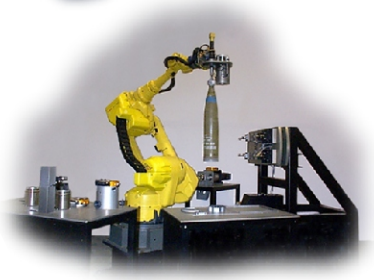
TRITONAL RECYCLING: Within our bomb demilitarization program, MCAAP has developed a cost-effective method for reclamation of tritonal and other high explosives. While current efforts produce quality commercial grade energetic material, ongoing improvements will provide a product suitable for military application. Current annual capacity for tritonal recovery is 11 million pounds.

MISSILE DEMILITARIZATION: Under a partnership with Raytheon Systems, MCAAP is actively engaged in the demilitarization of missiles, primarily the Maverick and the Standard SM-1. These programs have served as a major advancement in our demil program and has prompted MCAAP to pursue construction of a state-of-the-art missile demil facility.



EMERGING DEMILITARIZATION TECHNOLOGIES:

MCAAP continually endeavors to develop and expand partnerships with government/private sector entities to advance our demilitarization technology. Our Cryofracture facility, developed in cooperation with the Defense Ammunition Center, Sandia National Laboratory, General Atomics, and the Army Research, Development and Engineering Center is now operational and will greatly expand our ability to demilitarize a variety of munitions in an environmentally friendly manner. Other emerging technologies include propellant conversion, super critical water oxidation, molten salt oxidation and robotic disassembly.



1 C Tree Road - McAlester, OK -74501-9002
mo@mcaap.army.mil
www.mcaap.army.mil